

Page 2, before line 32 insert --

DETAILED DESCRIPTION OF THE INVENTION -- .

Page 9, before line 20 please insert --

EXAMPLES -- .

Page 15, line 1 please delete line "CLAIMS" and
substitute therefor --

WHAT IS CLAIMED IS: -- .

IN THE ABSTRACT:

Please delete the first two lines under "ABSTRACT" (the underlined title), and please also delete the last line ("No Figure").

IN THE CLAIMS:

Please amend claim 1 as follows:

1. (Amended) A p[P]rocess for the manufacture of 1-chloro-1-fluoroethane, [and/or] 1,1-difluoroethane, or mixtures thereof, comprising:

reacting [by reaction between] hydrogen fluoride and vinyl chloride in [the liquid phase, wherein the hydrogen fluoride and the vinyl chloride are introduced into] an organic solvent consisting of at least one saturated halogen-containing hydrocarbon, and

Sub
G1

*A¹ Sub
cont* recovering 1-chloro-1-fluoroethane, 1,1-difluoroethane,
or mixtures thereof.

Claims 2 to 8, in line 1 of each please delete "Process"
and substitute therefor -- The process -- .

Please amend claims 9 and 10 as follows:

9. (Amended) The p[P]rocess according to Claim 1,
wherein [the desired] a product is [withdrawn] continuously
recovered [from the reaction mixture].

*A²
Sub
C³* 10. (Amended) The p[P]rocess according to Claim 9,
[applied to the production of] wherein said product is 1,1-
difluoroethane, [wherein it is withdrawn] recovered in
gaseous form.

Please add new claim 11 as follow:

11. A process for the manufacture of 1-chloro-1-
fluoroethane, 1,1-difluoroethane or mixtures thereof
comprising:

A³ reacting hydrogen fluoride and vinyl chloride in an
organic solvent consisting of at least one saturated halogen-
containing hydrocarbon selected from the group consisting of
1-chloro-1-fluoroethane, 1,1-difluoroethane, 1,1-

1,3-dichloro-1-fluorobutane

137 dichloroethane and ~~compounds containing from 4 to 8 carbon~~
~~atoms, and~~

recovering 1-chloro-1-fluoroethane, 1,1-difluoroethane,
or mixtures thereof.

Please add the following new dependent claims:

12. The process according to claim 11, wherein the
reaction mixture contains, at all times, at least ^{55%}~~50%~~ by
weight of solvent.

13. The process according to claim 11, wherein the
introduction of vinyl chloride and hydrogen fluoride is
controlled so that, at all times, vinyl chloride content is
less than 15% and hydrogen fluoride content is less than 30%
of the weight of the reaction mixture.

14. The process according to claim 11, wherein the
molar ratio between hydrogen fluoride and vinyl chloride is
at least 1 and does not exceed 20.

15. The process according to claim 11, wherein the
reaction is carried out in the presence of a
hydrofluorination catalyst chosen from derivatives of metals
of groups IIIa, IVa, IVb, Va, Vb, and VIb of the Periodic
Table of the elements, and mixtures thereof.

16. The process according to claim 11, wherein the reaction is performed at a temperature of at least 40°C and not exceed 130°C and at a pressure equal to 2 bar and not exceeding 50 bar.

17. The process according to claim 11, wherein a desired product is continuously recovered.

*a³
const*

18. The process according to claim 17, wherein said product is 1,1-difluoroethane, withdrawn in gaseous form.

19. The process according to claim 1, wherein said reaction is at a temperature between 80° and 110°C.

20. The process according to claim 11, wherein said reaction is at a temperature between 80° and 110°C.

REMARKS

Pursuant to 37 CFR 1.111, reconsideration of the Official Action dated November 17, 1994 is respectfully requested.

Relying on 35 U.S.C. §103, the Examiner has rejected the claims alleging the subject matter thereof would have been obvious to a person of ordinary skill in the art at the time applicants made their invention in view of the disclosures of